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Description Notes Booth expresses EPA interest in participating in Monsanto's inter-laboratory study for 2,3,7,8-tetrachlorodibenzo-p-dioxin.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF RESEARCH AND DEVELOPMENT
ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY
CINCINNATI, OHIO 45268

August 10, 1981

Dr. Carl R. McMillen, Contract Manager
Monsanto Research Corporation
Dayton Laboratory, 1515 Nicholas Road
Post Office Box 8, Station B
Dayton, Ohio 45407

Dear Dr. McMillen:

The Environmental Monitoring and Support Laboratory - Cincinnati of the U.S. Environmental Protection Agency wishes to participate in the inter-laboratory study for 2,3,7,8-tetrachlorodibenzo-p-dioxin. The following provides the information requested in your RFQ dated 25 June 1981.

1. EMSL-Cincinnati will participate on a voluntary basis without compensation.
2. EMSL-Cincinnati will use a Hewlett-Packard 5993-B GC/MS which is equipped with a splitless capillary inlet system and a glass 0.75 mL/min molecular leak column-to-source interface. Sample preparation will be performed in the EMSL-Cincinnati Controlled Toxic Substance Handling Area. Either the Silar 10C or a SE-54 capillary column will be used for the analysis.
3. The Principal Investigator (PI), has satisfactorily participated in the interlaboratory studies for Method 605-benzidines; Method 609-nitroaromatics and isophorone; and Method 610-polynuclear aromatic hydrocarbons and has over 3 years experience using the HP 5993B GC/MS system. In addition, the staff of the Physical and Chemical Methods Branch of EMSL-Cincinnati has also participated in the interlaboratory studies for Methods 604-phenols, Method 606-phthalates, Method 607-nitrosamines, Method 608-pesticides and PCBs, and Method 612-chlorinated hydrocarbons.
4. The Safety Protocol to be used in this study is attached as a separate document.

The bulk of the work will be done in Room 576-B of the Andrew W. Breidenbach Environmental Research Center. This room is the EMSL-Cincinnati Controlled Toxic Substances Handling Area and is equipped with the following safety features.

- a. Negative Pressure, positive displacement glove box for storage of toxic compounds
- b. Lab Hood, stainless steel lined, average face velocity 113 cfm; equipped with pressure alarm, HEPA and charcoal filters
- c. Stainless steel bench tops
- d. Hand and eye wash facilities
- e. Entry and exit through shower
- f. Sprinkler system and triclass dry chemical fire extinguisher
- g. Explosion proof refrigerator
- h. Locking doors equipped with glass window
- i. Intercom to other personnel
- j. The room is under negative pressure

5 and 6. The study will be conducted in the Physical and Chemical Methods Branch, John F. Kopp, Branch Chief, by members of the Organic Analysis Section, James J. Lichtenberg, Section Chief. The PI (Denis Foerst) and his buddy (Thomas Bellar) report directly to James J. Lichtenberg.

Denis Foerst, resume enclosed, will be responsible for all aspects of this study and will perform all sample preparation steps and all analyses during both the prestudy and the interlaboratory study. Thomas Bellar will act as the "buddy" to assist the PI only during an emergency.

Any questions regarding the EMSL-Cincinnati's response to the RFQ should be addressed to Dr. Denis L. Foerst at (513) 684-7311.

Sincerely,



Robert L. Booth, Acting Director
Environmental Monitoring and Support
Laboratory - Cincinnati

Enclosure:
As Stated